



# The Streaming Video Technology Alliance

IETF 119 MOPS Update

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## General Updates

# 2023 EOY Update

### New Streaming Audio Study Group

A new Streaming Audio Study group to explore technical challenges with streaming higher audio profiles.

### Players and Playback Elevated

The Players and Playback Group has moved from a Study Group to a full-fledged Working Group

### SEGMENTS

We launched our first public-facing, one-day conference focused on operations. SEGMENTS:2024 (2/14) call for speakers is open.

### Common Media Library

First ever public repo for shared functionality across .js players



# 2023 Highlights

### Open Caching Performance Data

Verizon published real-world performance data about their Open Caching edge deployment. Available on [opencaching.svta.org](https://opencaching.svta.org)

### SVTA University

Launched an online technical university with Streaming Advertising 101 and CMCD 101. Open to the public.

### Streaming Video Wiki

Continue to fill the Wiki with relevant streaming video content. Can be found at [wiki.svta.org](https://wiki.svta.org).

### Document Numbering

Launched an SVTA document number convention and updated all published documents.



# Network Overlays Impact to Streaming

- New discussion topic @ SVTA

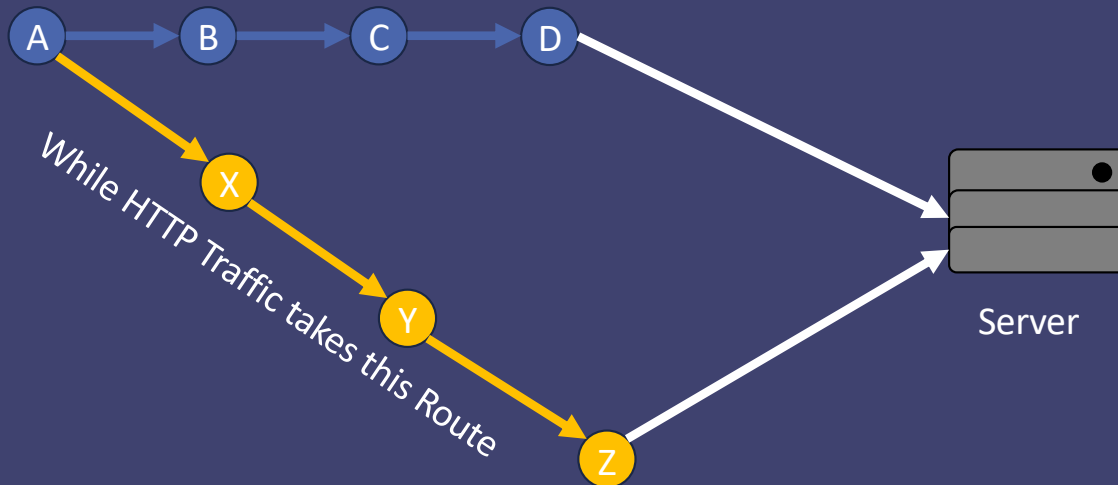
# Network Overlays change Network Policies

- Example Alternate Network Policies to the Underlying "native" Network
  - Routing changes
    - Alternate Ingress/Egress paths
  - Protocol /Application Specific Routing changes
  - DNS changes
    - DNS Resolver choice: 1.1.1.1 -> 8.8.8.8
    - DNS Protocol Choice: DNS/53 -> DoH
    - Change DNS policies: Protocols supports, Results Returned, Private Zones
  - Address Changes
    - Provide Alternate Addressing for Nodes
- Overlay & Policy Changes MAY NOT be visible to Applications

# Application Protocol Overlay Impacts

Network Policies maybe different for different protocols

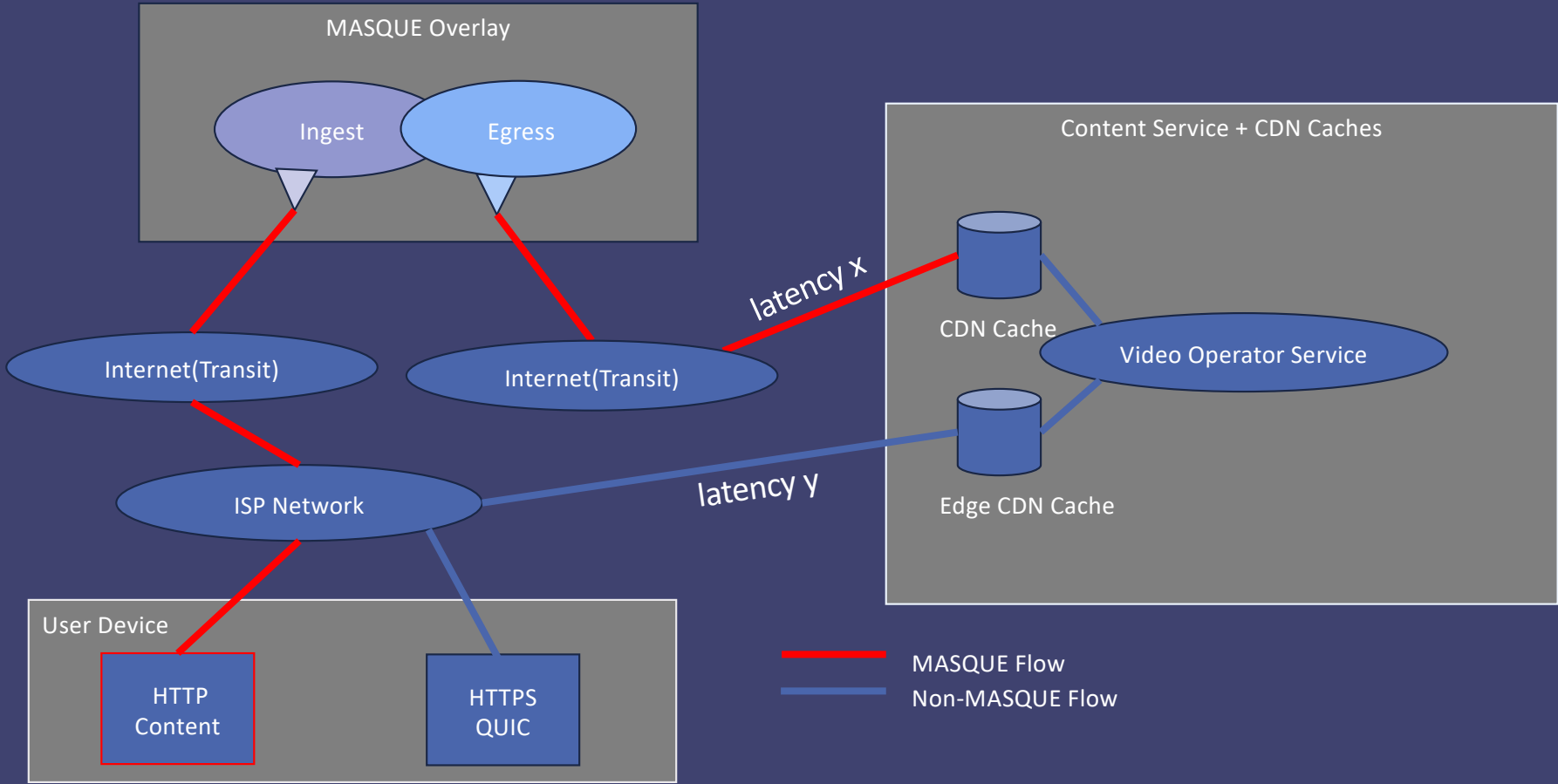
icmp, traceroute, HTTPS, DNS might take this Route



Different Protocols see different perspectives of the network

Policy changes may not to visible to Applications

# Example Impact: Different CDN Cache Selection, Different Latencies



## Next steps

- SVTA has begun an impacts identification & analysis paper
- Hope to have first draft ready for IETF120

Initial impact areas include:

- Discovery/Communication of Network Policy
- Latency Impacts
- Problems measuring latency when protocols take different paths
- IP Address Assignment/Association
- CDN Cache Selection